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1 Traffic characterization and SPAM: An empirical study of spam traffic and the use of DNS black lists ◼
Jaeyeon Jung, Emil Sit
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**
Full text available: 📄 pdf(73.23 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents quantitative data about SMTP traffic to MIT's Computer Science and Artificial Intelligence Laboratory (CSAIL) based on packet traces taken in December 2000 and February 2004. These traces show that the volume of email has increased by 866% between 2000 and 2004. Local mail hosts utilizing black lists generated over 470,000 DNS lookups, which accounts for 14% of all DNS lookups that were observed on the border gateway of CSAIL on a given day in 2004. In comparison, DNS blac ...

Keywords: DNS black lists, Zipf-like distribution, spam traffic

2 Beating spam and viruses with amavisd-new and maia mailguard ◼
Robert LeBlanc
December 2004 **Linux Journal**, Volume 2004 Issue 128
Full text available: 📄 html(22.23 KB)   Additional Information: full citation, abstract

Here's a spam and virus filter that gives users a second chance to rescue important mail from the virtual trash.

3 Fighting the spam wars: A remailer approach with restrictive aliasing ◼
Pawel Gburzynski, Jacek Maitan
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1
Full text available: 📄 pdf(162.34 KB)   Additional Information: full citation, abstract, references, index terms

We present an effective method of eliminating unsolicited electronic mail (so-called *spam*) and discuss its publicly accessible prototype implementation. A subscriber to our system is able to obtain an unlimited number of aliases of his/her permanent (protected) E-Mail address to be handed out to parties willing to communicate with the subscriber. It is also possible to set up publishable aliases, which can be used by human correspondents to contact the subscriber, while being useless to h ...

Keywords: Electronic mail, privacy, spam

4 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

Marjory S. Blumenthal, David D. Clark
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available: 🔂 pdf(176.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

5 A high-availability high-performance e-mail cluster

Wyman Miles
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**

Full text available: 🔂 pdf(175.10 KB)   Additional Information: full citation, index terms

Keywords: anti-spam, anti-virus, cluster, electronic mail, failover, high-availability, high-performance, mail routing, proxy, redundancy

6 Papers from Hotnets-II: The dark side of the Web: an open proxy's view

Vivek S. Pai, Limin Wang, KyoungSoo Park, Ruoming Pang, Larry Peterson
January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1

Full text available: 🔂 pdf(102.49 KB)   Additional Information: full citation, abstract, references

With the advent of large-scale, wide-area networking testbeds, researchers can deploy long-running services that interact with other resources on the Web. While such interaction can easily attract clients and traffic, our experience suggests that projects accepting outside input and interacting with outside resources must carefully consider the avenues for abuse of such services. The CoDeeN Content Distribution Network, deployed on PlanetLab, uses a network of caching Web proxy servers to intell ...

7 The platform for privacy preference as a social protocol: An examination within the U.S. policy context

Harry Hochheiser
November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Full text available: 🔂 pdf(241.03 KB)   Additional Information: full citation, abstract, references, index terms

As a "social protocol" aimed at providing a technological means to address concerns over Internet privacy, the Platform for Privacy Preferences (P3P) has been controversial since its announcement in 1997. In the U.S., critics have decried P3P as an industry attempt to avoid meaningful privacy legislation, while developers have portrayed the proposal as a tool for helping users make informed decisions about the impact of their Web surfing choices. This dispute touches upon the privacy model under ...

Keywords: P3P, Privacy, social protocols

8 Columns: Risks to the public in computers and related systems
Peter G. Neumann
November 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 6

Full text available: pdf(124.63 KB)   Additional Information: full citation

9 Risks to the public: Risks to the public in computers and related systems
Peter G. Neumann
May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3

Full text available: pdf(1.92 MB)   Additional Information: full citation

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Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Full text available: pdf(3.24 MB)   Additional Information: full citation

11 The LOCKSS peer-to-peer digital preservation system
Petros Maniatis, Mema Roussopoulos, T. J. Giuli, David S. H. Rosenthal, Mary Baker
January 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Full text available: pdf(715.30 KB)   Additional Information: full citation, abstract, references, index terms

The LOCKSS project has developed and deployed in a world-wide test a peer-to-peer system for preserving access to journals and other archival information published on the Web. It consists of a large number of independent, low-cost, persistent Web caches that cooperate to detect and repair damage to their content by voting in "opinion polls." Based on this experience, we present a design for and simulations of a novel protocol for voting in systems of this kind. It incorporates rate l ...

Keywords: Rate limiting, digital preservation, replicated storage

12 Columns: Risks to the public in computers and related systems
Peter G. Neumann
March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2

Full text available: pdf(165.39 KB)   Additional Information: full citation

13 Risks to the public: Risks to the public in computers and related systems
Peter G. Neumann
March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Full text available: pdf(221.43 KB)   Additional Information: full citation

14

Traffic characterization and SPAM: Measuring interactions between transport protocols

and middleboxes
Alberto Medina, Mark Allman, Sally Floyd
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**
Full text available: pdf(102.74 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we explore the evolution of both the Internet's most heavily used transport protocol, TCP, and the current network environment with respect to how the network's evolution ultimately impacts end-to-end protocols. The traditional end-to-end assumptions about the Internet are increasingly challenged by the introduction of intermediary network elements (middleboxes) that intentionally or unintentionally prevent or alter the behavior of end-to-end communications. This paper provides ...

Keywords: TCP, evolution, internet, middleboxes

15 Risks to the public: Risks to the Public
Peter G. Neumann
March 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 2
Full text available: pdf(99.08 KB)   Additional Information: full citation, abstract

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

16 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 File and storage systems: Preserving peer replicas by rate-limited sampled voting
Petros Maniatis, David S. H. Rosenthal, Mema Roussopoulos, Mary Baker, TJ Giuli, Yanto Muliadi
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Full text available: pdf(336.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

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Keywords: digital preservation, rate limiting, replicated storage

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Toshiyuki Masui, Satoru Takabayashi

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available: pdf(366.94 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

A number of people are exchanging e-mail messages everyday using mobile phones and PDAs. as well as PCs. E-mail is useful not only for one to-one communication but group communication through mailing lists. However, conventional mailing lists are not as widely used as they should be, because creating and maintaining a mailing list is not an easy task. We propose a simple and powerful mailing list service system called QuickML, with which people can easily create a mailing list and control the me ...

Keywords: groupware, mailing list, quickML, ubiquitous computing

19 <u>Software engineering education: Risks to the public in computers and related systems</u>

Peter G. Neumann

July 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 4

Full text available: pdf(106.60 KB)   Additional Information: <u>full citation</u>

20 <u>Multi-agent systems and social behavior: Blind sales in electronic commerce</u>

E. Aïmeur, G. Brassard, F. S. Mani Onana

March 2004 **Proceedings of the 6th international conference on Electronic commerce**

Full text available: pdf(330.05 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

We start with the usual paradigm in electronic commerce: a consumer who wants to buy from a merchant. However, both parties wish to enjoy maximal privacy. In addition to remaining anonymous, the consumer wants to hide her browsing pattern and even the identification of the product she may decide to buy. Nevertheless, she wants to be able to negotiate the price, pay, receive the product and even enjoy maintenance on it. On the other hand, the merchant wants to leak as little information as possib ...

Keywords: CAPTCHA, anonymous surfing, cryptography, customer buying behaviour, electronic commerce, oblivious transfer, private information retrieval

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2 Beating spam and viruses with amavisd-new and maia mailguard   ◼
   Robert LeBlanc
   December 2004 **Linux Journal**, Volume 2004 Issue 128
   Full text available: 🔲 html(22.23 KB)   Additional Information: full citation, abstract

   Here's a spam and virus filter that gives users a second chance to rescue important mail
   from the virtual trash.

3 Viewpoint: Spam, spim, and spit   ◼
   Vinton G. Cerf
   April 2005 **Communications of the ACM**, Volume 48 Issue 4
   Full text available: 🔲 pdf(61.70 KB) 🔲   Additional Information: full citation, abstract, index terms
                       html(23.71 KB)

   Abolishing spam, and its morphing forms, will take more than public protest and current
   filtering and legislative quick fixes.

4 An introduction to the Spambayes project   ◼
   Richie Hindle
   March 2003 **Linux Journal**, Volume 2003 Issue 107

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Make advanced spam filtering work with your existing mail tools.

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Keywords: anti-spam, anti-virus, cluster, electronic mail, failover, high-availability, high-performance, mail routing, proxy, redundancy

7 Stop in the name of spam
November 1998 **Communications of the ACM**, Volume 41 Issue 11

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8 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world
Marjory S. Blumenthal, David D. Clark
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

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9 Upfront
Linux Journal Staff
August 2002 **Linux Journal**, Volume 2002 Issue 100

Full text available: 🖻 html(15.62 KB)   Additional Information: full citation, index terms

10 Fighting the spam wars: A remailer approach with restrictive aliasing
Pawel Gburzynski, Jacek Maitan
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Full text available: pdf(162.34 KB)   Additional Information: full citation, abstract, references, index terms

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David A. Bandel
March 2002 **Linux Journal**, Volume 2002 Issue 95

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13 Papers from Hotnets-II: The dark side of the Web: an open proxy's view
Vivek S. Pai, Limin Wang, KyoungSoo Park, Ruoming Pang, Larry Peterson
January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1

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Nathan Smith

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Keywords: groupware, mailing list, quickML, ubiquitous computing

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Reuven M. Lerner
December 2003 **Linux Journal**, Volume 2003 Issue 116

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Maureen A. O'Rourke
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Peter G. Neumann
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